

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).

GEOPAK Computer Identification No. 50006

The PE Phase was developed under UPC 717. The RW Phase was developed under UPC 50006. The PE and R/W phases were developed under State Project Number 0221-080-108, PE-101, RW-202. The CN Phase was developed under UPC 95812 State Project Number 0221-080-108, C-502, Federal Project Number: ARRA-FS09(179) as part of Federal Stimulus (American Recovery and Reinvestment Act.)



FHWA 534 DATA 3E003

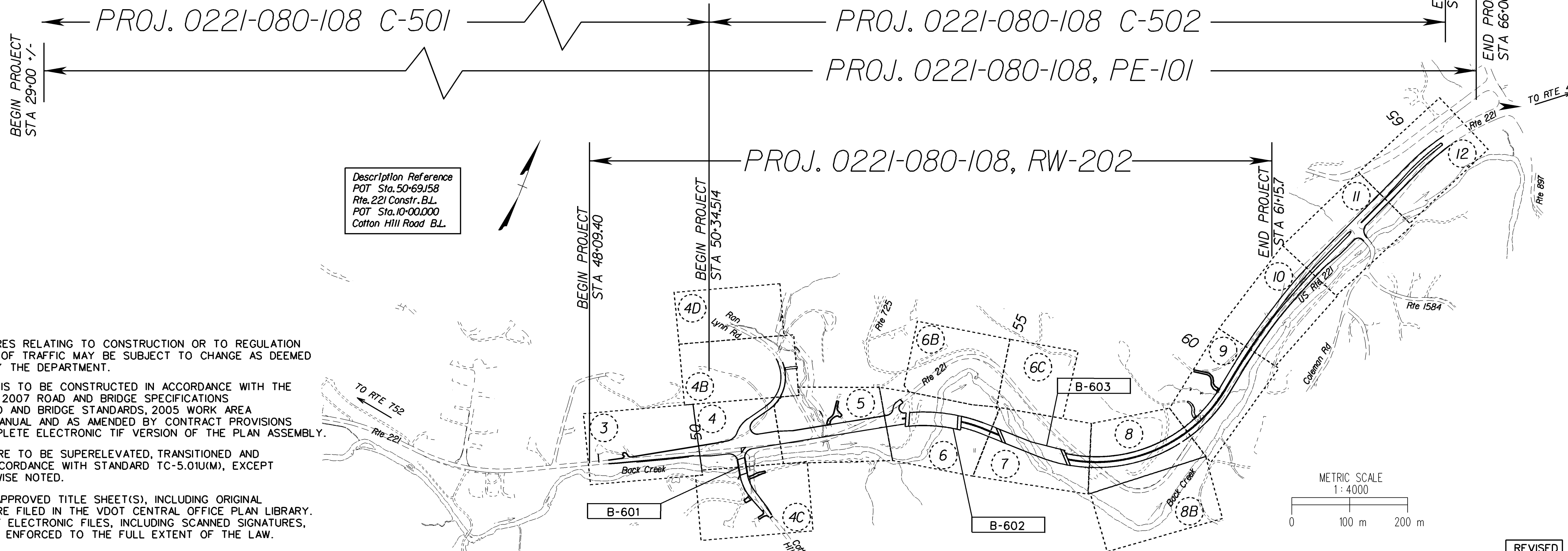
COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

ROANOKE COUNTY  
RTE. 221

FROM: 0.035 km S. OF INT. OF RTE 688  
TO: 1.478 km N. OF INT. RTE 688



DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION  
AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED  
NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE  
DEPARTMENT'S 2007 ROAD AND BRIDGE SPECIFICATIONS  
THE 1996 ROAD AND BRIDGE STANDARDS, 2005 WORK AREA  
PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS  
AND THE COMPLETE ELECTRONIC TIF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.01U(M), EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

## CONVENTIONAL SIGNS

STATE LINE	=====	LEVEE OR EMBANKMENT	=====	<p>DATE LINE</p> <p>DATE LINE</p>
COUNTY LINE	-----	BRIDGES	-----	
CITY, TOWN OR VILLAGE	_____	CULVERTS	-----	
RIGHT OF WAY LINE	=====	DROP INLET	-----	
FENCE LINE	x x x x x	POWER POLES	-----	
UNFENCED PROPERTY LINE	-----	TELEPHONE OR TELEGRAPH POLES	-----	
FENCED PROPERTY LINE	x x x x x	TELEPHONE OR TELEGRAPH LINES	-----	
WATER LINE	~~~~~	HEDGE	-----	
SANITARY SEWER LINE	-----	TREES	-----	
GAS LINE	-----	HEAVY WOODS	-----	
ELECTRIC UNDERGROUND CABLE	-----	GROUND ELEVATION	-----	
TRAVELED WAY	=====	GRADE ELEVATION	-----	
GUARD RAIL	=====			
RETAINING WALL	=====			
RAILROADS	=====			
BASE OR SURVEY LINE	=====			

[illegible]

NOTE: PROJECT LENGTH (CN&RW) BASED ON CONSTRUCTION @

STATE	FEDERAL AID	STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT	
VA.	ARRA-FS09(179)	221	(NFO) 0221-080-108 See Tabulation Below For Section Numbers	1

## FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

URBAN PRINCIPAL ARTERIAL (GS-5M) - ROLLING - 80 KM/H MIN DES SPEED

Fr: FROM: 0.035 km S. OF N. INT. OF RTE 688  
To: TO: 1.478 km N. OF INT. RTE. 688

ADT (2007)	13700
ADT (2032)	24800
DHV	2480
D (%) (design hour)	70/30
T (%) (design hour)	5
V (KM/H)	*

EXCEPTION TO HORIZONTAL ALIGNMENT - COTTON HILL ROAD

STA. TO STA.	RADIUS	REASON FOR EXCEPTION	APPROVED DATE
10+50.752 TO 10+90.725	76.000m	CONNECTION	10-30-2009

\*SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL AND VERTICAL CURVE DESIGN SPEEDS.

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
8-18-98 DATE	Robert O. Cassado PROGRAMMING DIVISION DIRECTOR
8-18-98 DATE	J.T. Mills STATE LOCATION AND DESIGN ENGINEER
8-18-98 DATE	James W. Atwell CHIEF FINANCIAL OFFICER
8-17-98 DATE	JG Browder Jr. CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION

8-17-98	David R. Gehr
DATE	COMMISSIONER

## RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

2-18-10	Diane L. Mitchell
DATE	PROGRAMMING DIVISION DIRECTOR
2-19-10	Mohammad Mirshahi
DATE	STATE LOCATION AND DESIGN ENGINEER
2-22-10	Kendal R. Watus
DATE	STATE STRUCTURE AND BRIDGE ENGINEER
2-22-10	Refo Busher
DATE	CHIEF FINANCIAL OFFICER

APPROVED FOR CONSTRUCTION

2-24-10	Malcolm T. Kerley
DATE	CHIEF ENGINEER

APPROVED

DATE	DIVISION ADMINISTRATOR FEDERAL HIGHWAY ADMINISTRATION U.S. DEPARTMENT OF TRANSPORTATION
------	---

Copyright 1998, Commonwealth of Virginia

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A	0221-080-108		1

SURVEYED BY Willey & Wilson  
PROJECT MANAGER C.E.Cumple 540-387-5561  
DESIGN SUPERVISED BY Jason Williams, P.E. 804-786-9074  
DESIGNED BY Phan Ong 804-786-4116  
REVISED BY \_\_\_\_\_

PRINTS SENT TO		NO.	DATE
R/W DIV.	ADVANCE PLANS COMPLETED PLANS	—	—
DIST. ENGR	ADVANCE PLANS COMPLETED PLANS FOR UTILITIES	—	—
RES. ENGR	ADVANCE PLANS COMPLETED PLANS	—	—
CONSTR. ENGR.		—	—